



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Reliable Products
1300 Enterprise Road (PO Box 580)
Geneva, AL 36340

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model 5DDWRDC Aluminum Louver

APPROVAL DOCUMENT: Drawing No. 60-022270-00B, titled "5DDWRDC", sheets 1 through 21 of 21, dated 08/02/2012, with revision B dated 01/25/2016, prepared by Reliable Products, signed and sealed by Chelsea GQ. Welch, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Geneva, AL, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA # 12-0921.07 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



Carlos M. Utrera
05/17/2016

NOA No. 16-0217.04
Expiration Date: February 23, 2021
Approval Date: May 26, 2016
Page 1


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-022270-00B**, titled "5DDWRDC", sheets 1 through 21 of 21, dated 08/02/2012, with revision B dated 01/25/2016, prepared by Reliable Products, signed and sealed by Chelsea GQ. Welch, P.E.

B. TESTS "Submitted under NOA # 12-0816.01"

1. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly A) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3792-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
2. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly B) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3782-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
3. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly C) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3784-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
4. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly D) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3790-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.
5. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly E) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. **210-3785-2**, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.



05/17/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 16-0217.04
Expiration Date: February 23, 2021
Approval Date: May 26, 2016

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Continued)

6. Test report on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EME520MD (Assembly F) Aluminum Louvers, prepared by National Certified Testing Laboratories, Report No. 210-3784-4, dated 05/23/2012, signed and sealed by Gerald J. Ferrara, P.E.

"Submitted under NOA # 05-0812.07"
7. Test report on Large Missile Impact Test per FBC, TAS 201-94, Cyclic Wind Pressure Test per FBC, TAS 203-94, and Uniform Static Air Pressure Test per FBC, TAS 202-94 of Series EME520MD aluminum louvers muller together, prepared by Fenestration Testing Laboratory, Inc, Test Report No. 4525, dated 04/22/2005, signed and sealed by E. J. Largaespada, P.E.

C. CALCULATIONS *"Submitted under NOA # 16-0112.02"*

1. Louver wind load review prepared by Ruskin Company, dated 12/22/2015, signed and sealed by Chelsea GQ. Welch, P.E.

"Submitted under NOA # 12-0816.01"
2. Louver wind load review prepared by Ruskin Company, dated 07/25/2012, signed and sealed by Daniel J. Rau, P.E.

"Submitted under NOA # 05-0812.07"
3. Calculations prepared by Ruskin Company, dated 08/10/2005, pages 1 through 13, signed and sealed by E. P. Hutson, P.E.

D. QUALITY ASSURANCE


1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS *"Submitted under NOA # 12-0816.01"*

1. Test report on impact test per AMCA 540 of an EME520MD louver, prepared by Ruskin Company, Test Report No. 053012F, dated 05/30/2012, signed and sealed by Daniel J. Rau, P.E.

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 02/02/2016, signed and sealed by Chelsea GQ. Welch, P.E.
2. No financial interest letter issued by Ruskin Company, dated 02/02/2016, signed and sealed by Chelsea GQ. Welch, P.E.
3. Private label agreement dated 02/02/2016.


05/17/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 16-0217.04
Expiration Date: February 23, 2021
Approval Date: May 26, 2016

NOTES:

1. THE 5DDWRDC HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
2. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 120 PSF OR LESS.
3. THIS LOUVER SYSTEM IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.
4. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
5. THIS LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE WALL SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. IT SHALL BE THE RESPONSIBILITY OF PERMIT HOLDER/BUILDING DESIGN ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THIS LOUVER SYSTEM.
6. MAXIMUM SINGLE SECTION SIZE: 87 15/16" WIDE X 144" HIGH OR 104 15/16" WIDE X 144" HIGH (W/O JAMB ATTACHMENTS, HEAD AND SILL ATTACHMENTS ONLY) OR 144" WIDE X 112" HIGH.
7. MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 144" HIGH W/ SECTION MULLIONS AT 87 7/8" (TRAPEZOIDS ALLOWED) OR UNLIMITED WIDE X 144" HIGH W/ SECTION MULLIONS AT 104 15/16" (W/O JAMB ATTACHMENTS, HEAD AND SILL ATTACHMENTS ONLY) OR ROUND ASSEMBLIES UP TO 144" DIAMETER.
8. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
9. CMU BLOCKS MUST BE TYPE 1 , GRADE N, LIGHT, MEDIUM OR NORMAL WEIGHT CONFORMING TO ASTM C90. CMU BLOCKS MUST BE FULLY GROUTED WITH COARSE GROUT CONFORMING TO FLORIDA BUILDING CODE SECTION 2122.8. TYPE N, S OR M MORTAR MUST COMPLY WITH FLORIDA BUILDING CODE SECTION 2103.9. MASONRY COMPRESSIVE STRENGTH MUST BE AT LEAST 1500 PSI AT TIME OF INSTALLATION.
10. ABBREVIATIONS: HDG IS HOT DIP GALVANIZED, STL IS STEEL AND HWH IS HEX WASHER HEAD.
11. ALL FASTENERS SHALL BE CORROSION RESISTANT.

DRAWING INDEX:

- 60-022270-00B SHEET 1 OF 21 - NOTES AND DRAWING INDEX
- 60-022270-00B SHEET 2 OF 21 - ASSY. "A" & CONNECTION DETAILS
- 60-022270-00B SHEET 3 OF 21 - ASSY. "A" ALT. CONNECTION DETAILS
- 60-022270-00B SHEET 4 OF 21 - ASSY. "A", "B", "C", "D" & "F" ALT. CONNECTION DETAILS
- 60-022270-00B SHEET 5 OF 21 - ASSY. "B"
- 60-022270-00B SHEET 6 OF 21 - ASSY. "C"
- 60-022270-00B SHEET 7 OF 21 - ASSY. "D"
- 60-022270-00B SHEET 8 OF 21 - ASSY. "B", "C" & "D" DETAILS
- 60-022270-00B SHEET 9 OF 21 - ASSY. "B", "C" & "D" CONNECTION DETAILS
- 60-022270-00B SHEET 10 OF 21 - ASSY. "B", "C" & "D" ALT. CONNECTION DETAILS
- 60-022270-00B SHEET 11 OF 21 - ASSY. "B", "C" & "D" ALT. CONNECTION DETAILS
- 60-022270-00B SHEET 12 OF 21 - ASSY. "E" & CONNECTION DETAILS
- 60-022270-00B SHEET 13 OF 21 - ASSY. "E" ALT. CONNECTION DETAILS
- 60-022270-00B SHEET 14 OF 21 - ASSY. "E" DETAILS
- 60-022270-00B SHEET 15 OF 21 - ASSY. "F" & CONNECTION DETAILS
- 60-022270-00B SHEET 16 OF 21 - ASSY. "F" ALT. CONNECTION DETAILS
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- 60-022270-00B SHEET 18 OF 21 - PARTS DETAILS
- 60-022270-00B SHEET 19 OF 21 - PARTS DETAILS
- 60-022270-00B SHEET 20 OF 21 - PARTS DETAILS
- 60-022270-00B SHEET 21 OF 21 - ASSY. "B", "C" & "D" SUPPORT TABLES



ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

Chelsea Welch
7/5/2016

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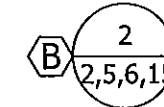
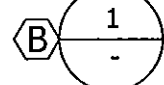
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. *16-0217-04*
Expiration Date *02/23/2021*
By *[Signature]*
Miami Dade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010
2 PLACE .XX +.020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2"
USE W1Q-007 & 008
UNLESS SPECIFIED OTHERWISE


DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 1 OF 21

<div>B</div>	REVISED ENGINEER OF RECORD, NOTES & DRAWING INDEX	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div>RELIABLE</div> <div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div>		PLOT SCALE NONE		ECN: _____		
TITLE 5DDWRDC LOUVER APPROVAL DRAWINGS		DWG. NO. 60 - 022270 - 00B				



2/2/2016

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0217.04
Expiration Date 02/23/2021
By 
Miami Trade Product Control

TOLERANCES
 DECIMAL DIMENSIONS:
 3 PLACE .XXX +.010
 2 PLACE .XX +.020
 FRACTION DIMENSIONS: + 1/16
 ANGLE DIMENSIONS + 2°
 USE WIT-007 & 008
 UNLESS SPECIFIED OTHERWISE

SHEET 2 OF 21

RELIABLE

1300 Enterprise Road
Geneva, Alabama 36340
PHONE (334) 684-3621
FAX (334) 684-2832

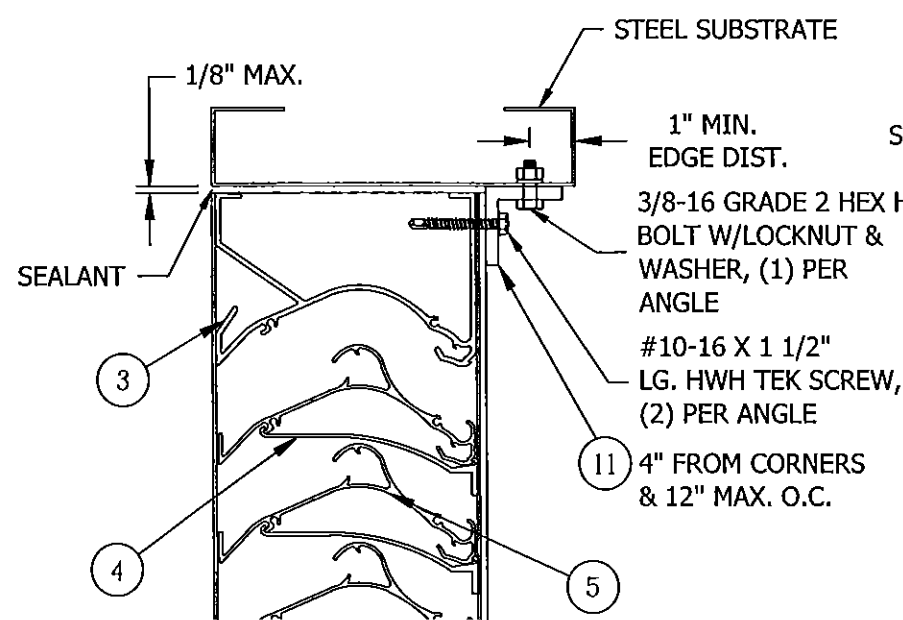
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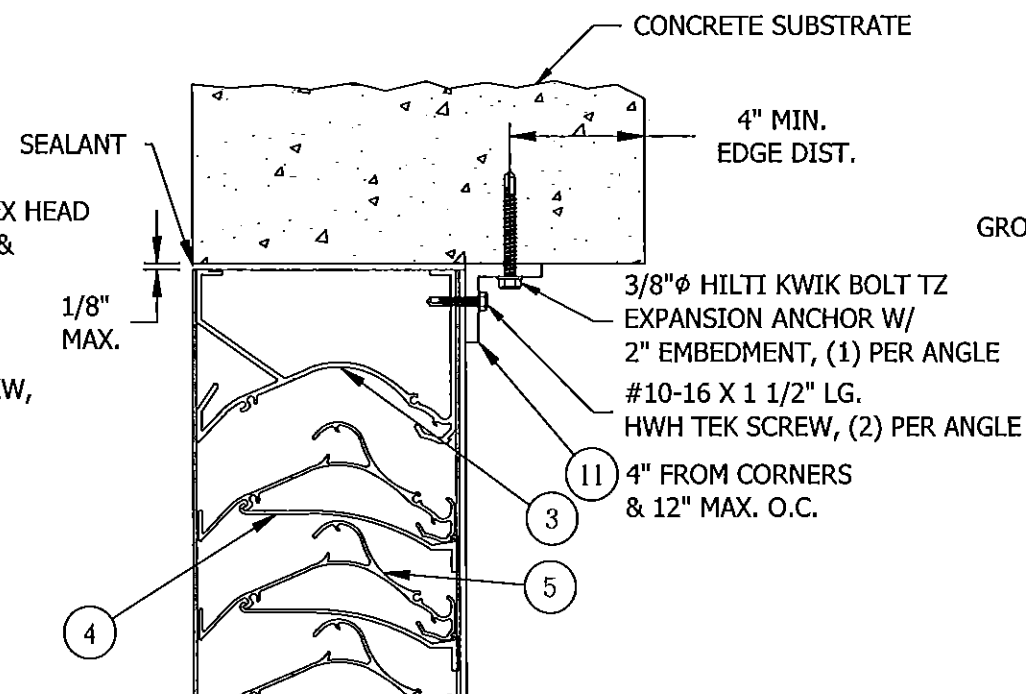
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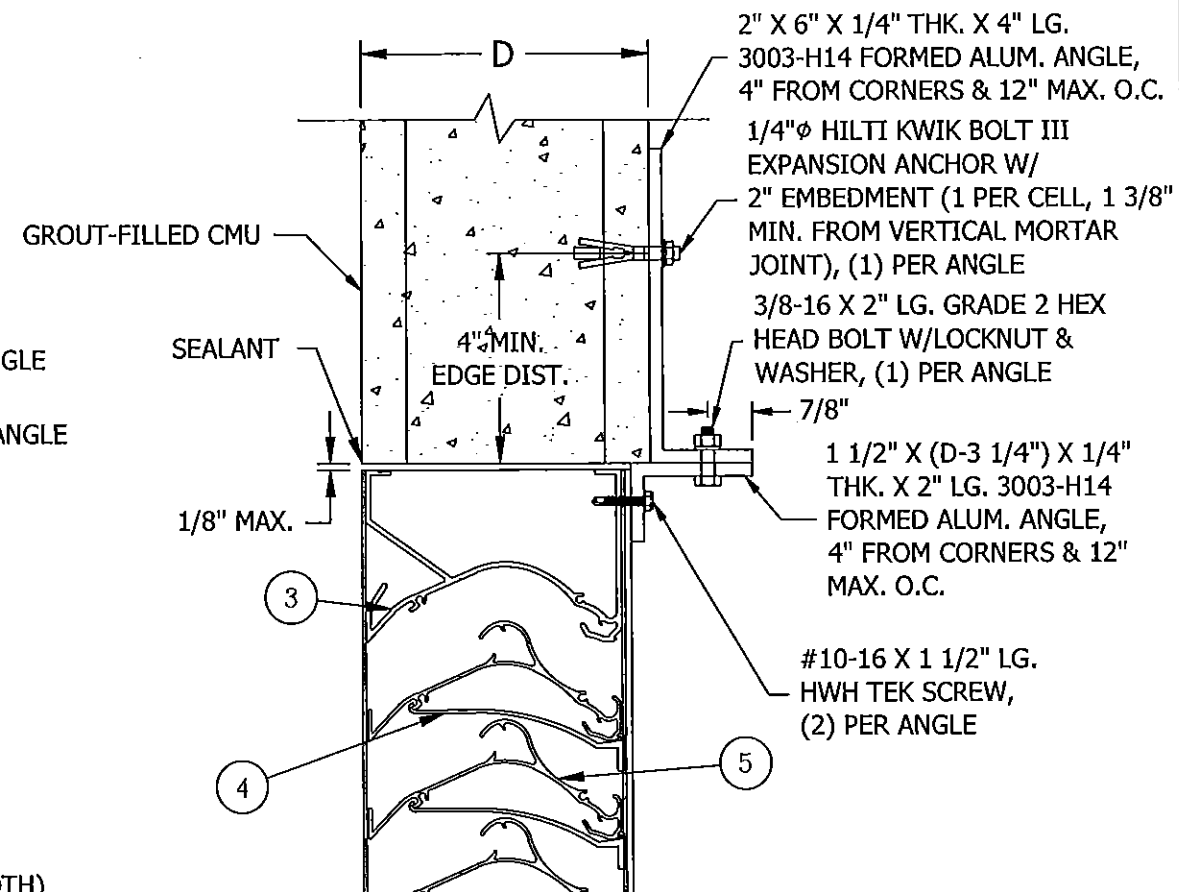
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1B
2 ASSEMBLY "A" ALTERNATE CONNECTION
N.T.S.
STEEL SUBSTRATE (10 GA MIN. THICKNESS)
SILL SIMILAR

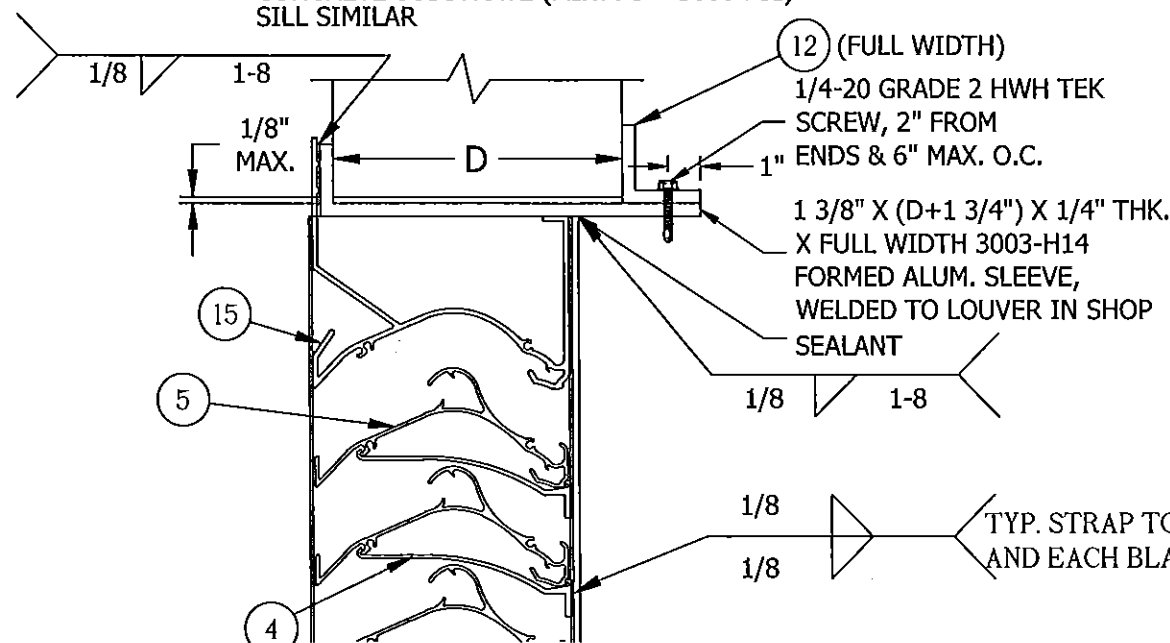


1C
2 ASSEMBLY "A" ALTERNATE CONNECTION
N.T.S.
CONCRETE SUBSTRATE (MIN. $f_c = 3000$ PSI)
SILL SIMILAR



1D
2 ASSEMBLY "A" ALTERNATE CONNECTION
N.T.S.
6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1
SILL SIMILAR

**NOTE: # = ITEM NUMBER
SEE SHEETS 18-20**



1E
2 ASSEMBLY "A" ALTERNATE CONNECTION
N.T.S.
FLANGE FRAME W/SLEEVE
SILL SIMILAR

ENGINEER OF RECORD
CHELSEA G. WELCH
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FL# 67221

ENGINEER OF RECORD SEAL

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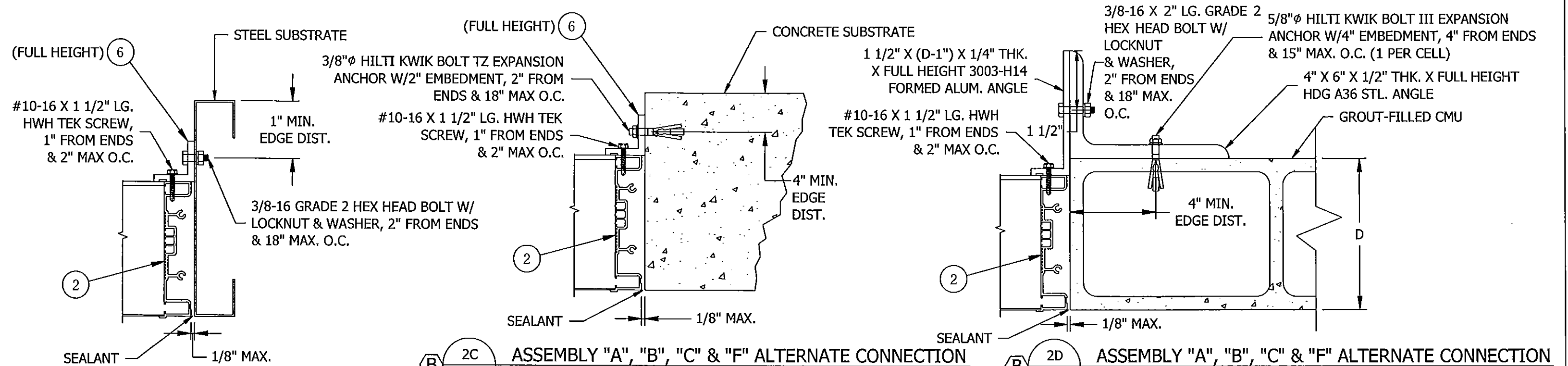
PRODUCT REVISED
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Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By *[Signature]*
Manufacture Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE XXX + .010
2 PLACE XX + .020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE W/0-07 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 3 OF 21

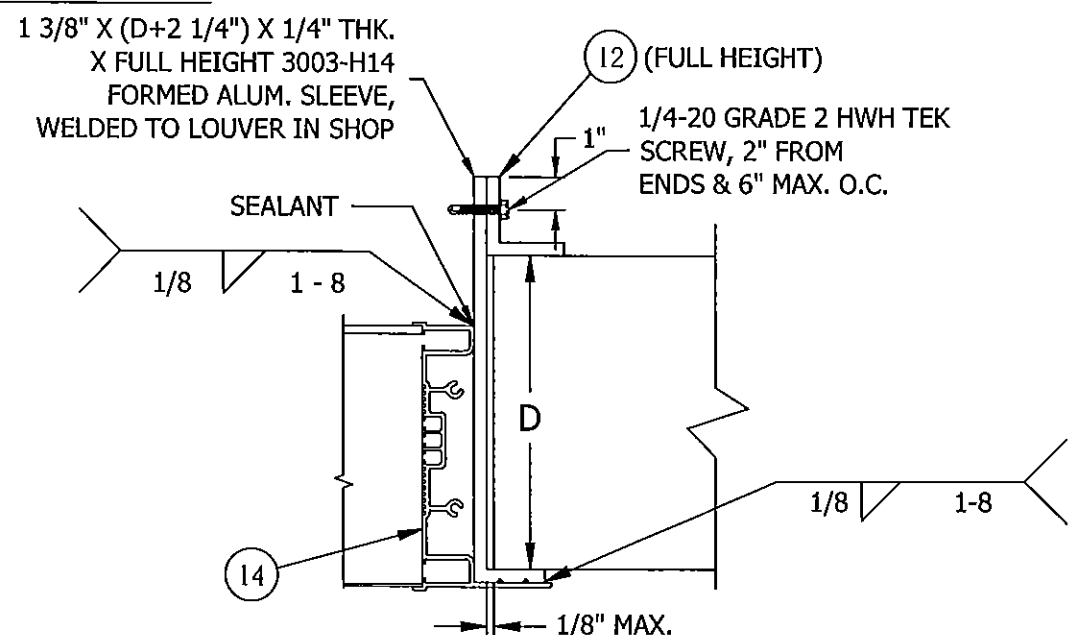
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CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPVD. BY:	APPVD. BY:	DATE
<div><div>RELIABLE</div><div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div></div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "A" ALT. CONNECTION DETAILS		DWG. NO. 60-022270-00B				



2C
2 ASSEMBLY "A", "B", "C" & "F" ALTERNATE CONNECTION
N.T.S.
CONCRETE SUBSTRATE (MIN. $f_c = 3000$ PSI)

2D
2 ASSEMBLY "A", "B", "C" & "F" ALTERNATE CONNECTION
N.T.S.
6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1

2B
2 ASSEMBLY "A", "B", "C" & "F" ALTERNATE CONNECTION
N.T.S.
STEEL SUBSTRATE (10 GA MIN. THICKNESS)



2E
2, 7 ASSEMBLY "A", "B", "C", "D" & "F" ALTERNATE CONNECTION
N.T.S.
FLANGE FRAME W/SLEEVE

NOTE: (#) = ITEM NUMBER
SEE SHEETS 18-20

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

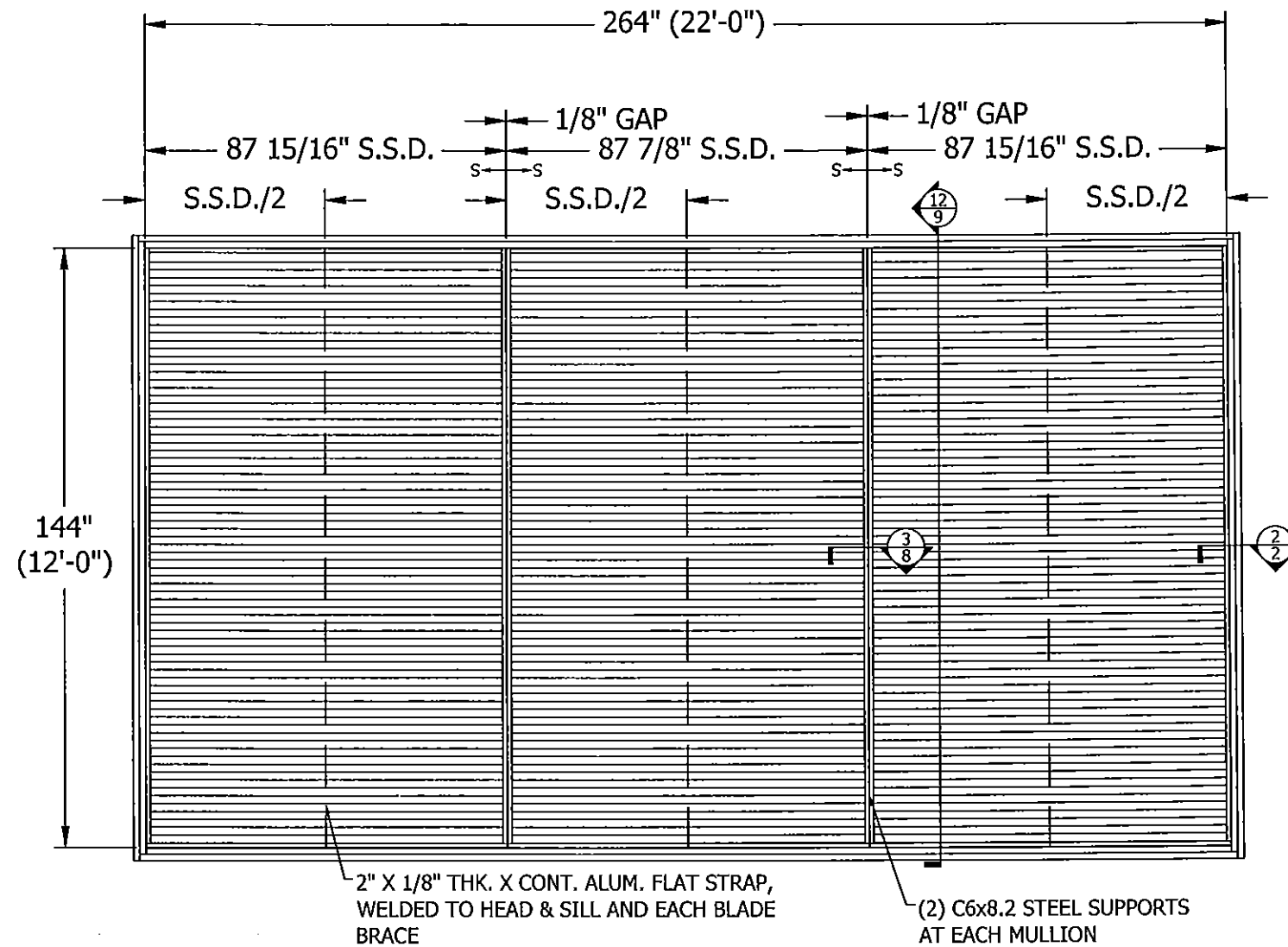
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Acceptance No 16-0317-04
Expiration Date 02/23/2021
By *[Signature]*
Miami Code Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE XX.X ± 0.01
2 PLACE XX.X ± 0.02
FRACTION DIMENSIONS: ± 1/16
ANGLE DIMENSIONS: ± 2"
USE W10-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

REVISION	REVISOR	DATE	REVISION	DATE
	REVISION	DATE	REVISION	DATE
1	REVISED ENGINEER OF RECORD & ANNOTATIONS	1/25/16		
2	REVISION DESCRIPTION			
RELIABLE		1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832		
TITLE		5DDWRDC LOUVER ASSEMBLY "A", "B", "C", "D" & "F" ALT. CONNECTION DETAILS		
ECN:		60-022270-00B		



ASSEMBLY "B"

N.T.S.

5DDWRDC

FRONT VIEW

ENGINEER OF RECORD

CHELSEA G. WELCH

ENGINEERING DISCIPLINE

CIVIL/STRUCTURAL

REGISTRATION NUMBER

FL# 67221

ENGINEER OF RECORD SEAL



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By [Signature]
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010
2 PLACE .XX +.020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE VIC-017 & 008
UNLESS SPECIFIED OTHERWISE

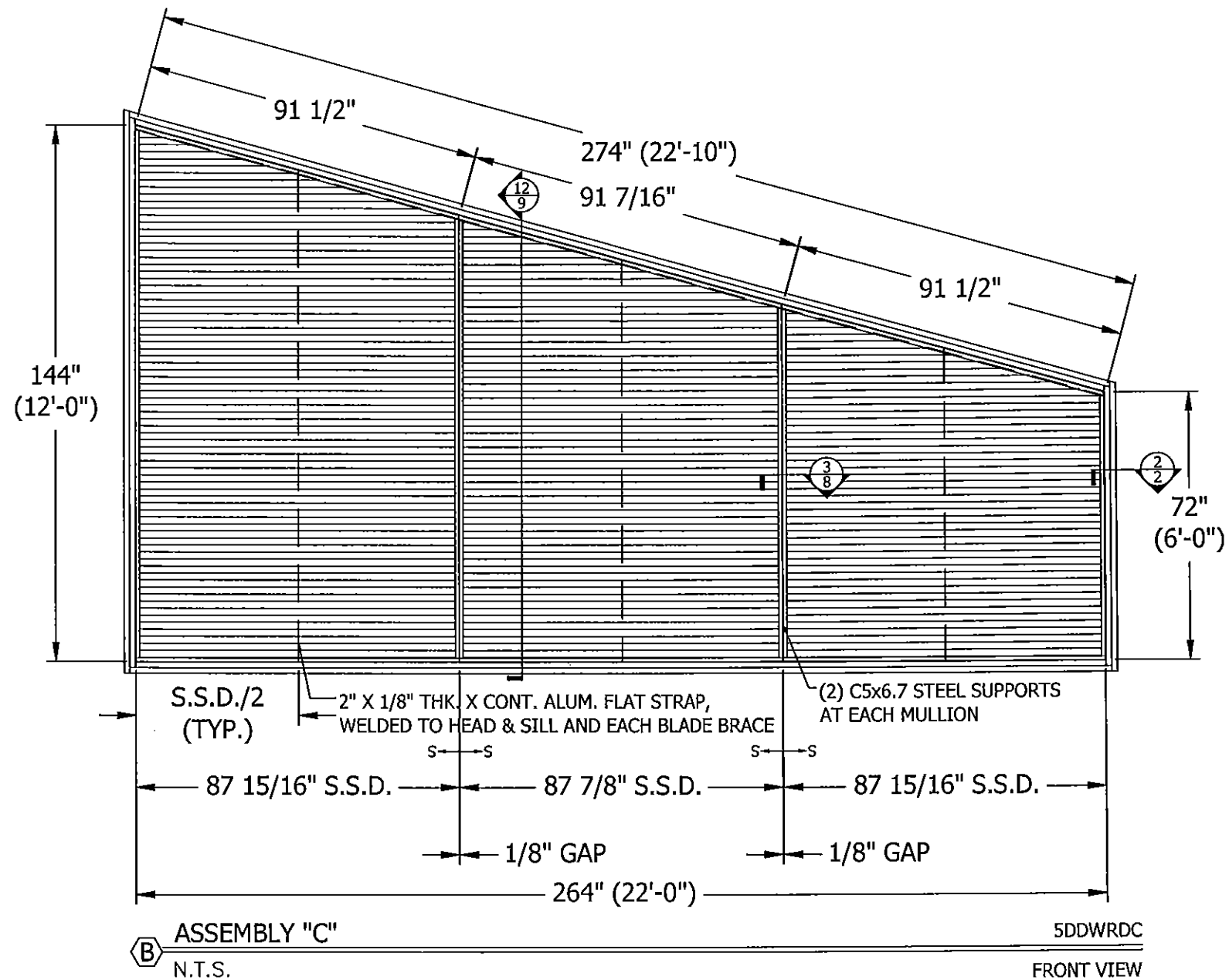
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DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 5 OF 21

	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
 <div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "B"		DWG. NO. 60-022270-00B				

RELIABLE

1300 Enterprise Road
Geneva, Alabama 36340
PHONE (334) 684-3621
FAX (334) 684-2832



B
ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

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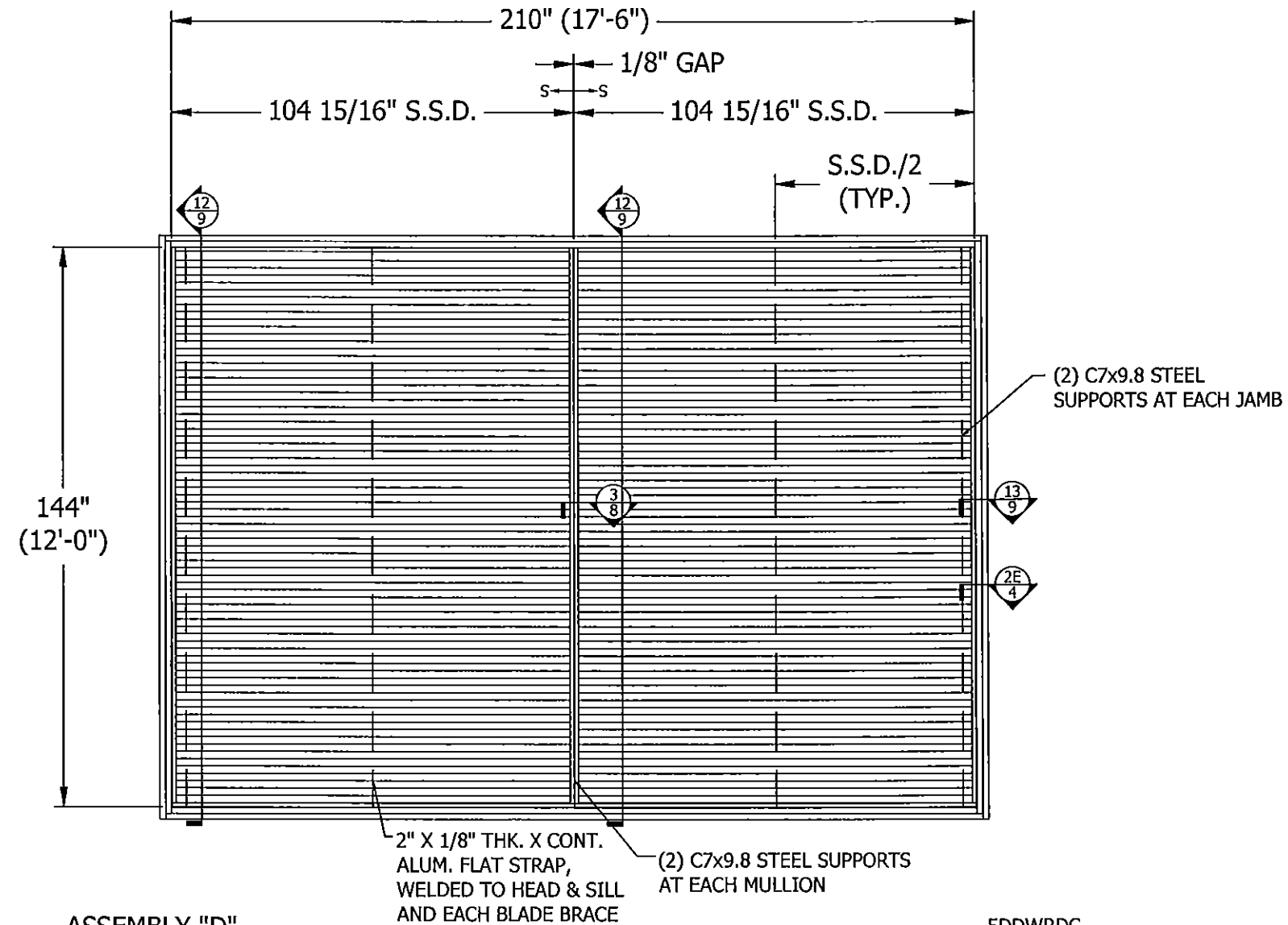
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By *[Signature]*
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE XXX +.010
2 PLACE .XX +.020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2'
USE VED-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 6 of 21

<div>B</div>	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div><div>RELIABLE</div><div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div></div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "C"		DWG. NO. 60-022270-00B				



ASSEMBLY "D"
N.T.S.

5DDWRDC
FRONT VIEW

(B)
ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221
<i>Chelsea G. Welch</i> 2/21/2016

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FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. *16-0217-04*
Expiration Date *02/23/2021*
By *[Signature]*
Miami Trade Product Control

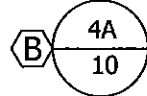
TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010.
2 PLACE .XX +.020.
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE W10-07 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 6/11/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 7 of 21

(B)	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	RELIABLE	1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832		PLOT SCALE B		ECN: _____
TITLE 5DDWRDC LOUVER ASSEMBLY "D"		DWG. NO. 60-022270-00B				







ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

FOR OFFICE USE ONLY

By [Signature]
Miami-Dade Product Control

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
	CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APP'V'D. BY:	APP'V'D. BY:
		1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832		PLOT SCALE <div style="text-align: center; font-size: 2em;">B</div>		ECN: _____
TITLE <div style="text-align: center; font-size: 1.5em;"> 5DDWRDC LOUVER ASSEMBLY "B", "C" & "D" DETAILS </div>		DWG. NO. <div style="text-align: center; font-size: 2em;">60-022270-00B</div>				

REVISD ENGINEER OF RECORD &
ANNOTATIONS

RSM

RKP

CGW

1

1/25/16

CHANG
LETTER

REVISION DESCRIPTION

DWN.
BY:

CHK'D.

APPROVED.

APPV'D.

DATE _____

RELIABLE

1300 Enterprise Road
Geneva, Alabama 36340
PHONE (334) 684-3621
FAX (334) 684-2832

<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;"> PLOT SCALE </div>
--

B

ECN:

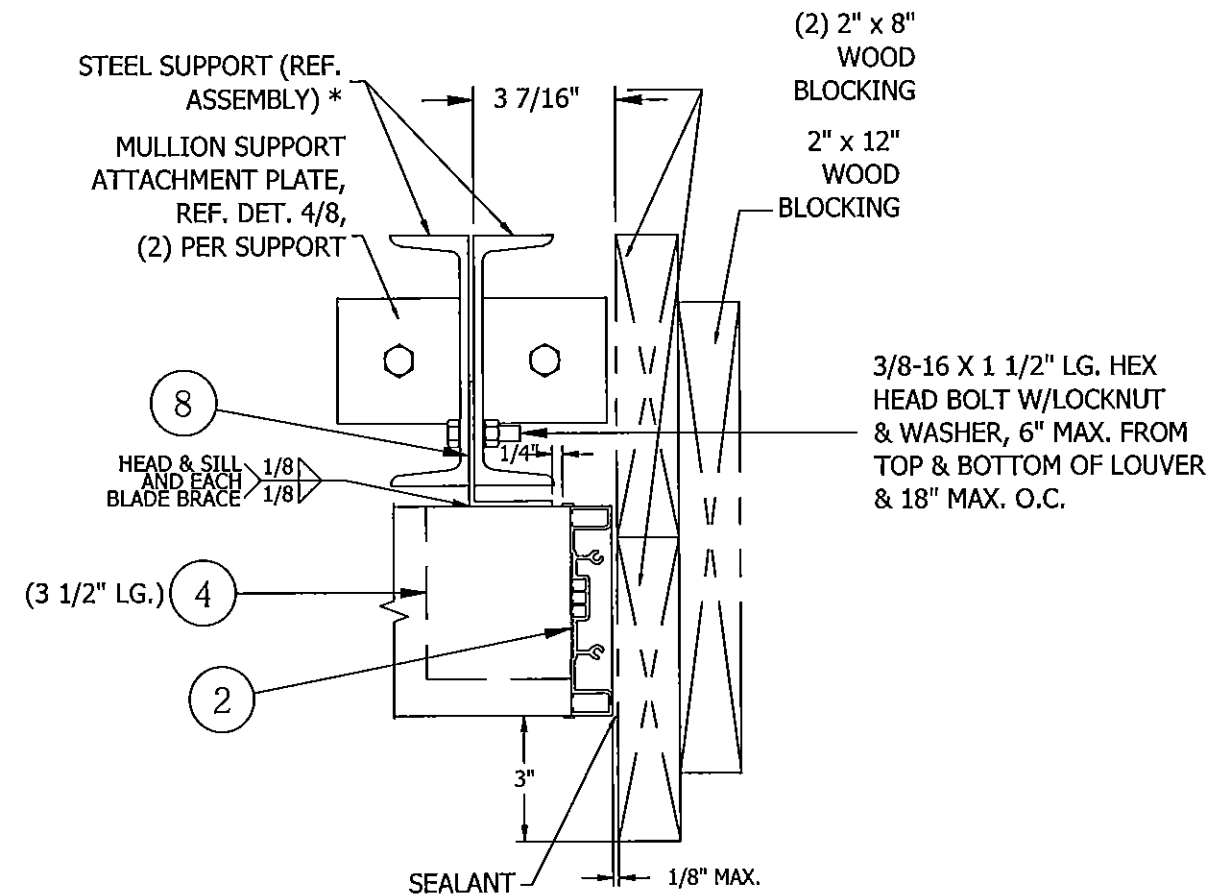
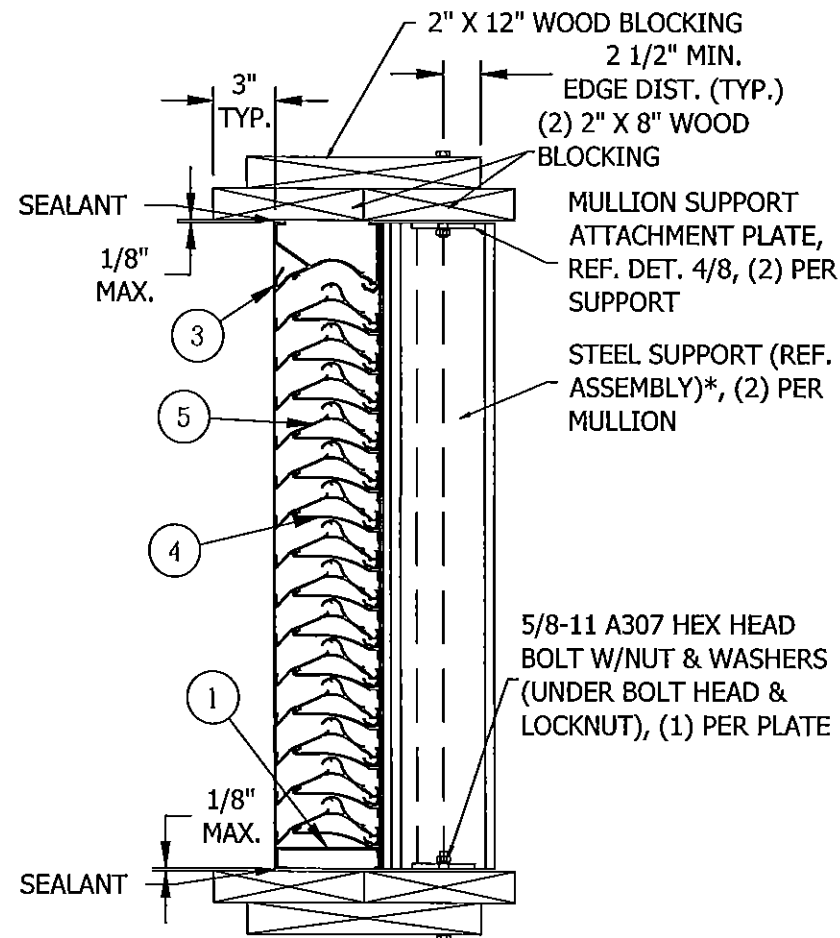
DWG. NO.	
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	TITLE
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5DDWRDC LOUVER
ASSEMBLY "B", "C" & "D"
DETAILS

60-022270-00B

NOTE: # = ITEM NUMBER
SEE SHEETS 18-20



12
5, 6, 7
ASSEMBLY "B", "C" & "D" MULLION SUPPORT CONNECTION
N.T.S.
WOOD SUBSTRATE
FOR ALTERNATE CONNECTIONS,
REF. DET. 12A, 12B & 12C ON SHEET 10 AND DET. 12E ON SHEET 11

13
7
ASSEMBLY "D" JAMB SUPPORT CONNECTION
N.T.S.
WOOD SUBSTRATE
OPPOSITE JAMB SIMILAR
REF. DET. 12 ON THIS SHEET FOR ALTERNATE CONNECTIONS

*
FOR SMALLER ASSEMBLIES, REF. SUPPORT TABLES ON
SHEET 21

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

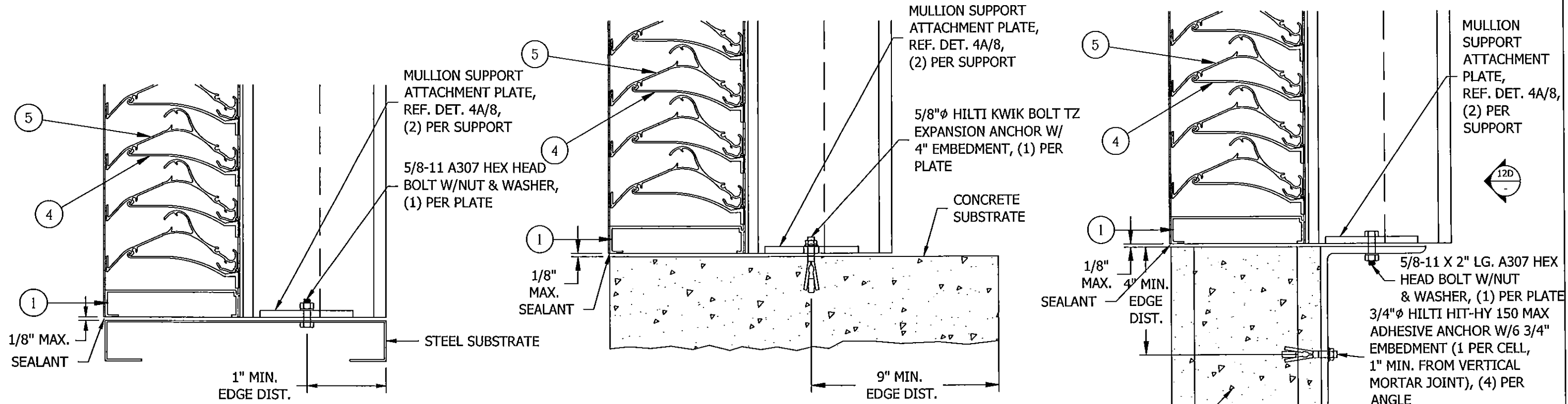
FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-022270-04
Expiration Date 02/23/2021
By [Signature]
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010,
2 PLACE .XX +.020,
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2'
USE WTC-007 & 008
UNLESS SPECIFIED OTHERWISE

SHEET 9 OF 21

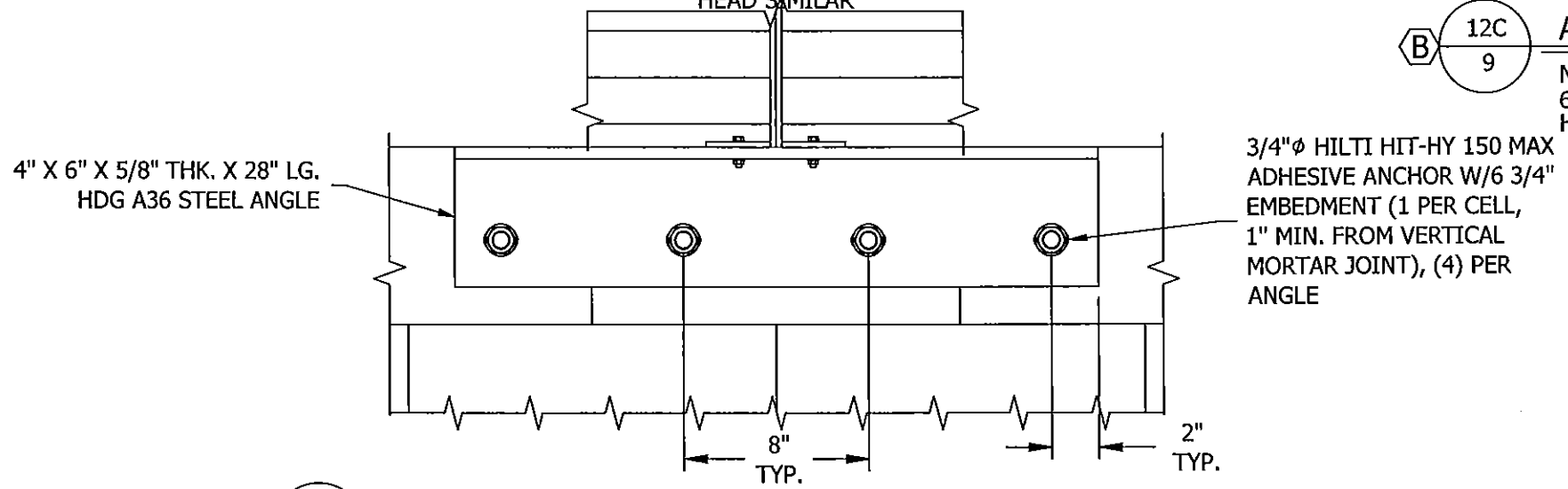
<div>B</div>	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div>RELIABLE</div> <div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div>		PLOT SCALE <div>B</div>		ECN: _____		
TITLE <div>5DDWRDC LOUVER ASSEMBLY "B", "C" & "D" CONNECTION DETAILS</div>		DWG. NO. <div>60-022270-00B</div>				



B 12A 9 ASSEMBLY "B", "C" & "D" ALTERNATE CONNECTION
N.T.S.
STEEL SUBSTRATE (10 GA MIN. THICKNESS)
HEAD SIMILAR

B 12B 9 ASSEMBLY "B", "C" & "D" ALTERNATE CONNECTION
N.T.S.
CONCRETE SUBSTRATE (MIN. f_c = 3000 PSI)
HEAD SIMILAR

B 12C 9 ASSEMBLY "B", "C" & "D" ALTERNATE CONNECTION
N.T.S.
6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1
HEAD SIMILAR



B NOTE: # = ITEM NUMBER
SEE SHEETS 18-20

B 12D ASSEMBLY "B", "C" & "D" ALTERNATE CONNECTION 5DDWRDC
N.T.S.
6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

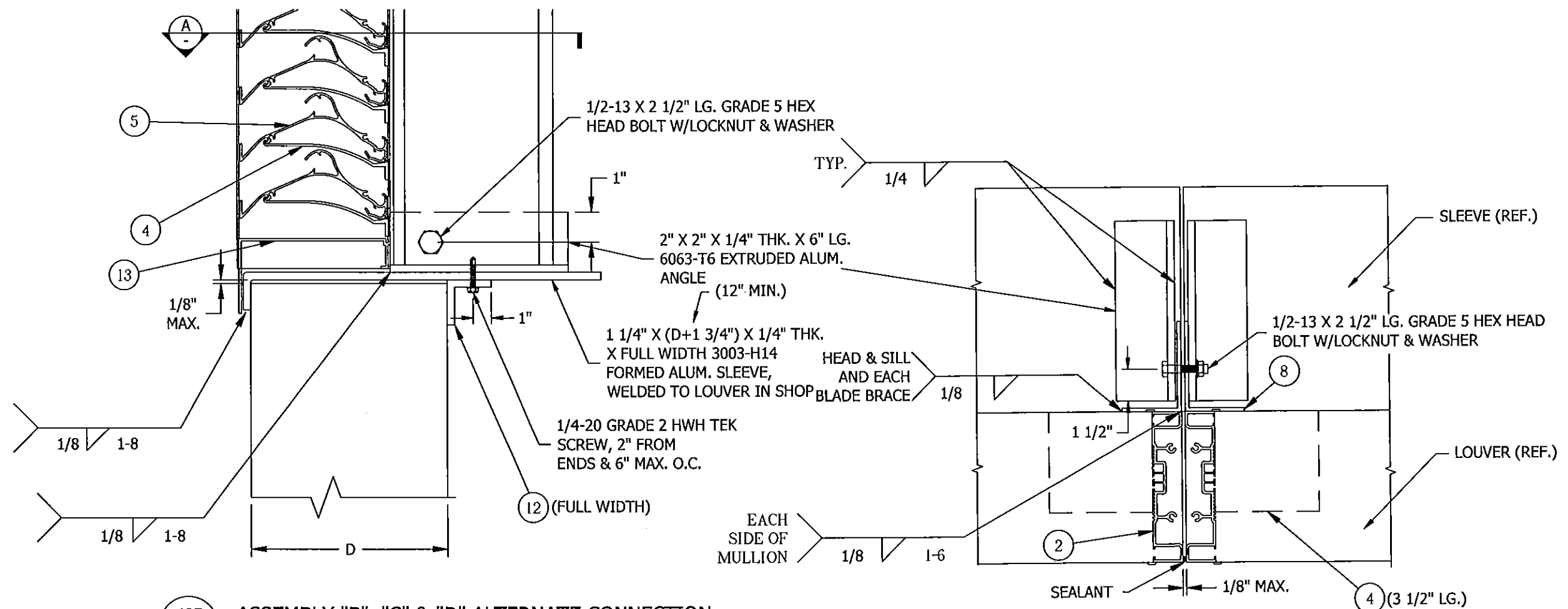
FOR OFFICE USE ONLY



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No **16-0217-04**
Expiration Date **02/23/2021**
By **[Signature]**
Miami Trade Product Control

TOLERANCES:
DECIMAL DIMENSIONS:
3 PLACE .XXX + .010
2 PLACE .XX + .020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE W/0-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

B	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	RELIABLE					
	1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832					
TITLE	5DDWRDC LOUVER ASSEMBLY "B", "C" & "D" ALT. CONNECTION DETAILS	PLOT SCALE B	ECN:			
		DWG. NO.				
		60-022270-00B				





ASSEMBLY "B", "C" & "D" ALTERNATE CONNECTION
 N.T.S.
 FLANGE FRAME W/SLEEVE
 HEAD SIMILAR

ASSEMBLY "B", "C" & "D" ALTERNATE CONNECTION 5DDWRDC
N.T.S. TOP VIEW
FLANGE FRAME W/SLEEVE
STEEL SUPPORTS NOT SHOWN FOR CLARITY

ENGINEER OF RECORD SEAL

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as complying with the Florida
Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By [Signature]
Miami Dade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +0.0_
2 PLACE .XX +0.00_
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS + 2°_
USE WTC-007 & 008

DWN. BY: DRP	CHK. BY: DJR	APP'VD. BY: DJR	APP'VD BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 11 OF 21

B

REVISED ENGINEER OF RECORD & ANNOTATIONS	
---	--

RSM

RKP

CGW

1/25/16

CHANGE
LETTER

REVISION DESCRIPTION

DWN.
BY:

CHK'D.
BY:

APPR'D.
BY:

APPROV'D.
BY:

DATE _____

RELIABLE

1300 Enterprise Road
Geneva, Alabama 36340
PHONE (334) 684-3621
FAX (334) 684-2832

<div style="display: flex; justify-content: space-between;"> <div> <p> PROJECT TITLE PROJECT NUMBER PROJECT LOCATION PROJECT DATE PROJECT STATUS </p> </div> <div> <p> PLOT SCALE </p> </div> </div>
--

B

ECN:

DWG. NO.	
----------	--

	TITLE
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5DDWRDC LOUVER
ASSEMBLY "B", "C" & "D"
ALT. CONNECTION DETAILS

60-022270-00B

2" X 1/8" THK. X CONT.
ALUM. ANTI-FLUTTER STRAP,
WELDED TO HEAD & SILL
AND EACH BLADE BRACE, (2)
PLACES, EQUALLY SPACED

ANTI-FLUTTER STRAP
SPLICE, REF. DET. 17/14

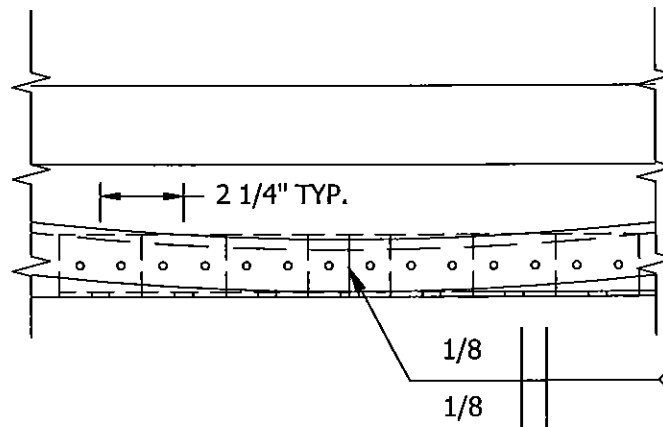
DET. 15/- OR
DET. 18/-

18
-
FRAME SPLICE DETAIL (ALTERNATE)
N.T.S.

16
-
ASSEMBLY "E"
N.T.S.

5DDWRDC
FRONT VIEW

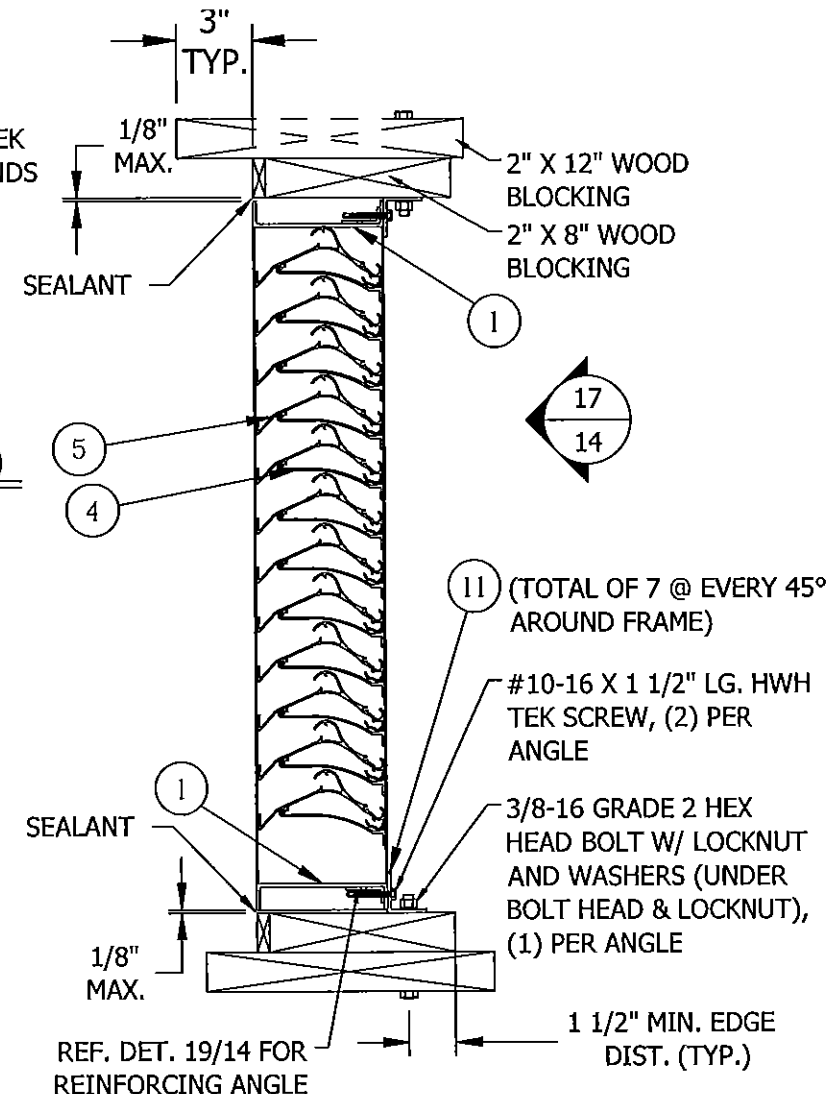
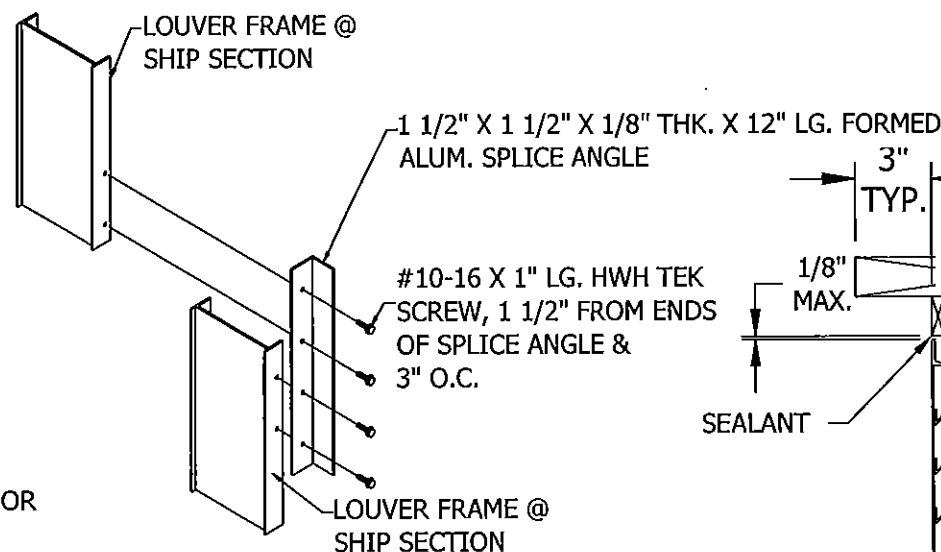
DET. 15/-



15
-
ASSEMBLY "E" FRAME CONNECTION
N.T.S.

FACE VIEW

NOTE: (#) = ITEM NUMBER
SEE SHEETS 18-20



ASSEMBLY "E" FRAME CONNECTION

N.T.S.
WOOD SUBSTRATE
FOR ALTERNATE CONNECTIONS,
REF. DET. 16A & 16B ON SHEET 13

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0717-04
Expiration Date 04/23/2021
By [Signature]
Manufacture Product Control

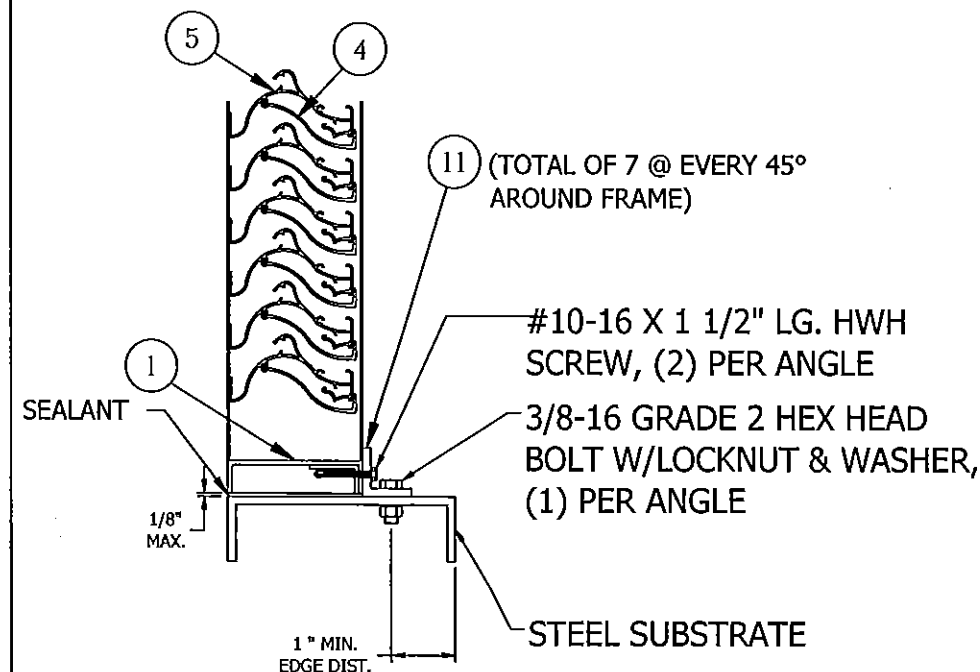
TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010
2 PLACE .XX +.005
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE W10-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPVD. BY: DJR	APPVD. BY: [Blank]
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE: [Blank]

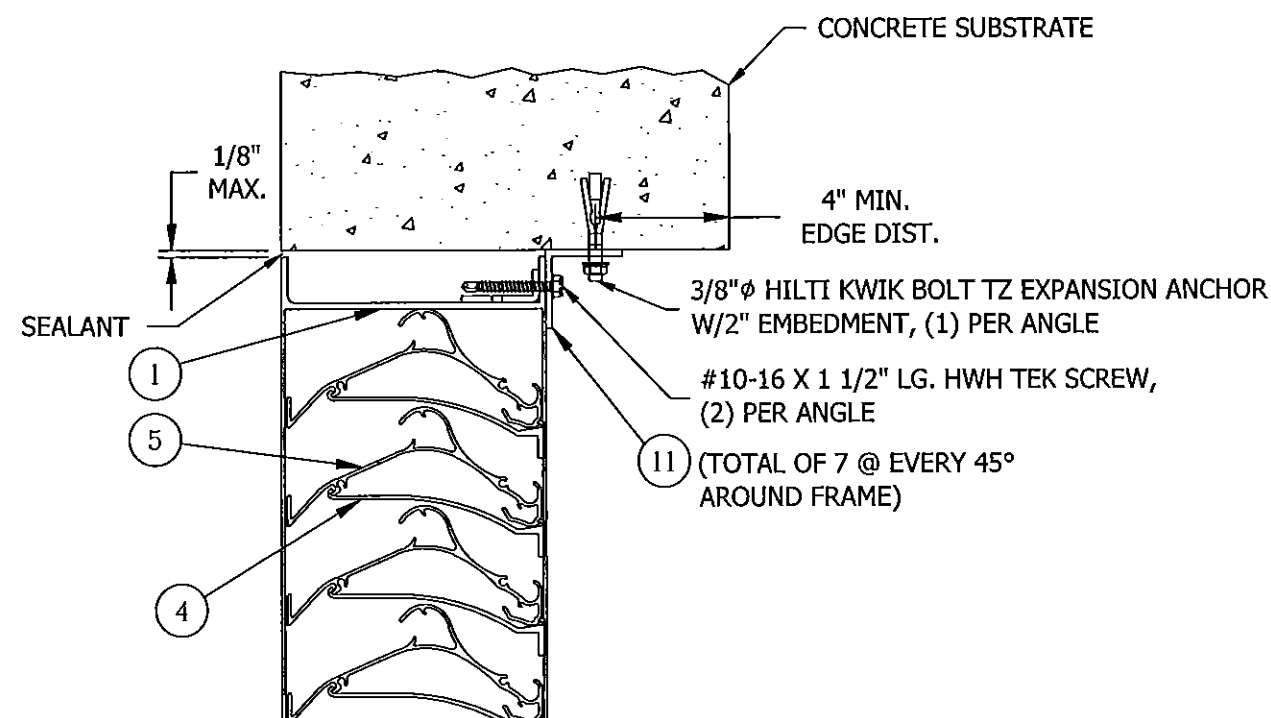
SHEET 12 OF 21

<div>B</div>	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div>RELIABLE</div> <div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "E" & CONNECTION DETAILS		DWG. NO. 60-022270-00B				

(B) NOTE: # = ITEM NUMBER
SEE SHEETS 18-20



(B) 16A
12 ASSEMBLY "E" ALTERNATE CONNECTION
N.T.S.
STEEL SUBSTRATE (10 GA MIN. THICKNESS)



(B) 16B
12 ASSEMBLY "E" ALTERNATE CONNECTION
N.T.S.
CONCRETE SUBSTRATE (MIN. f'c = 3000 PSI)

(B)
ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By [Signature]
Miami Product Control

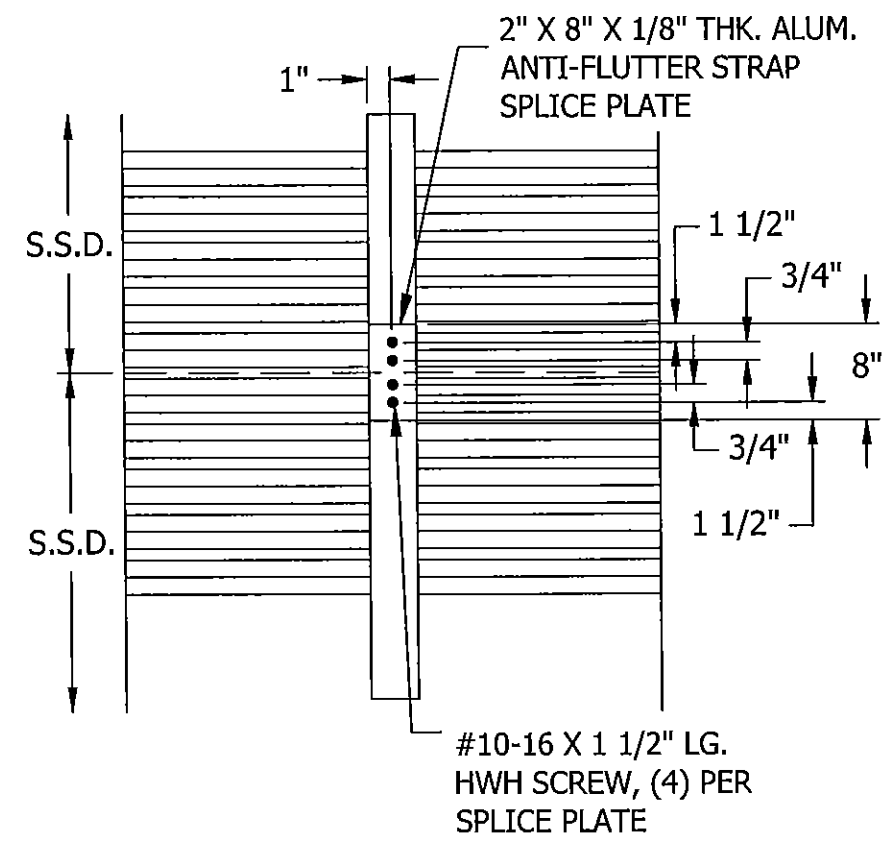
TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010.
2 PLACE .XX +.020.
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2'
USE WQ-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

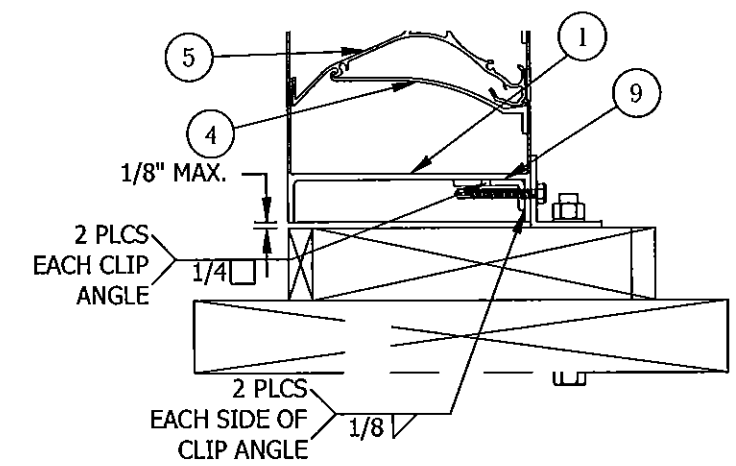
SHEET 13 OF 21

<div>B</div>	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div><div>RELIABLE</div><div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div></div>		PLOT SCALE <div>B</div>		ECN: _____		
TITLE <div>5DDWRDC LOUVER ASSEMBLY "E" ALT. CONNECTION DETAILS</div>		DWG. NO. <div>60-022270-00B</div>				

NOTE: # = ITEM NUMBER
SEE SHEETS 18-20



17
12 ANTI-FLUTTER STRAP SPLICE DETAIL
N.T.S. 5DDWRDC
REAR VIEW



19
12 REINFORCING ANGLE DETAIL
N.T.S.

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

Chelsea G. Welch
2/2/2016

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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-02270-09
Expiration Date 02/23/2021
By *[Signature]*
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACES .XXX +0.00
2 PLACES .XX +0.00
FRACTIONAL DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2"
USE W100-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

REVIS	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	RELIABLE 1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832	PLOT SCALE B	ECN:			
TITLE	5DDWRDC LOUVER ASSEMBLY "E" DETAILS	DWG. NO.				60-022270-00B

NOTE: # = ITEM NUMBER
SEE SHEETS 18-20

ASSEMBLY "F" - REMOVED
N.T.S.

5DDWRDC
FRONT VIEW

ASSEMBLY "F" MULLION CONNECTION - REMOVED
N.T.S.
WOOD SUBSTRATE
FOR ALTERNATE CONNECTIONS,
REF. DET. 5A, 5B & 5C ON SHEET 16 AND DET. 5E ON SHEET 17

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

ASSEMBLY "F" MULLION CONNECTION - REMOVED
N.T.S.
WOOD SUBSTRATE
5DDWRDC
REAR VIEW



FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 16-0217-04
Expiration Date 02/23/2021
By *Chelsea Welch*
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE XX.X ± 0.10
2 PLACE XX.X ± 0.05
FRACTION DIMENSIONS: ± 1/16
ANGLE DIMENSIONS: ± 2°
USE W10-07 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 15 OF 21

	REVISED ENGINEER OF RECORD & ANNOTATIONS, REMOVED ASSY. "F" & CONNECTION DETAILS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
 <div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "F" & CONNECTION DETAILS		DWG. NO. 60-022270-00B				

NOTE: # = ITEM NUMBER
SEE SHEETS 18-20

5A
15
ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED
N.T.S.
STEEL STRUCTURE (10 GA MIN. THICKNESS)
HEAD SIMILAR

5B
15
ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED
N.T.S.
CONCRETE SUBSTRATE (MIN. f_c = 3000 PSI)
HEAD SIMILAR

5C
15
ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED
N.T.S.
6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1
HEAD SIMILAR

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

5D
-
ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED 5DDWRDC
N.T.S.
6", 8", 10", 12" CMU SUBSTRATE - REF. NOTE 9 ON SHEET 1
REAR VIEW

ENGINEER OF RECORD SEAL

FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By [Signature]
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX ± 0.10
2 PLACE .XX ± 0.03
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: ± 2°
USE VIZ-907 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 16 OF 21

REVIS	REVISED ENGINEER OF RECORD & ANNOTATIONS, REMOVED CONNECTION DETAILS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
RELIABLE	1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832	PLOT SCALE B	ECN:			
TITLE 5DDWRDC LOUVER ASSEMBLY "F" ALT. CONNECTION DETAILS		DWG. NO. 60-022270-00B				

(B) NOTE: (#) = ITEM NUMBER
SEE SHEETS 18-20

(B) 5E
15 ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED
N.T.S.
FLANGE FRAME W/SLEEVE

(B) 5F
- ASSEMBLY "F" ALTERNATE CONNECTION - REMOVED 5DDWRDC
N.T.S.
FLANGE FRAME W/ SLEEVE TOP VIEW

(B)
ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

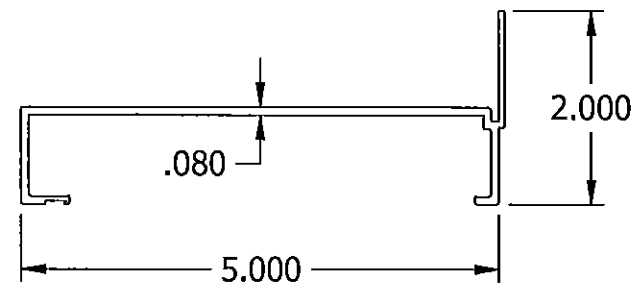
FOR OFFICE USE ONLY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0227-04
Expiration Date 02/23/2024
By [Signature]
Miami Fire Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010.
2 PLACE .XX +.020.
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE WQ-007 & 008
UNLESS SPECIFIED OTHERWISE

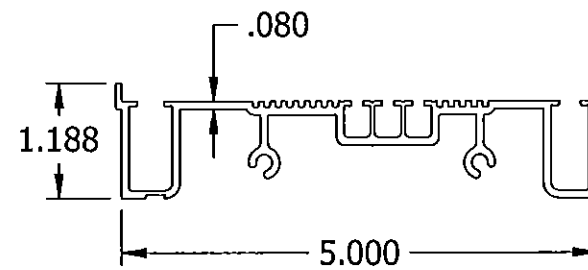
DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:
SHEET 17 OF 21			

<div>B</div>	REVISED ENGINEER OF RECORD & ANNOTATIONS, REMOVED CONNECTION DETAILS	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div><div>RELIABLE</div><div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div></div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "F" ALT. CONNECTION DETAILS		DWG. NO. 60-022270-00B				



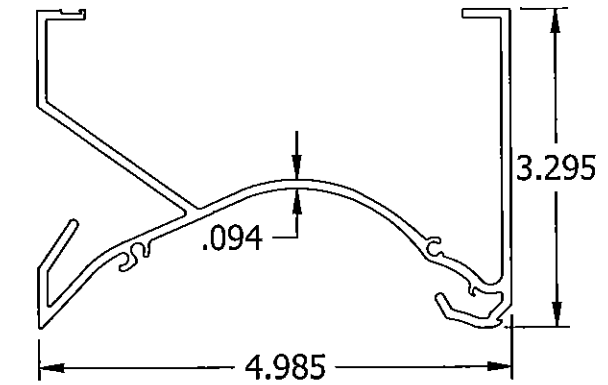
ITEM 1 - SILL FRAME

N.T.S.
RUSKIN #70-022498-00B
MATERIAL: 6063-T6 ALUM.



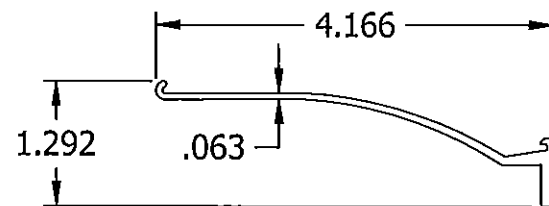
ITEM 2 - JAMB FRAME

N.T.S.
RUSKIN #70-022508-00B
MATERIAL: 6063-T6 ALUM.



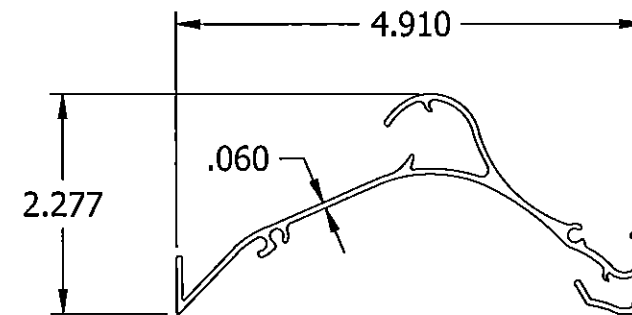
ITEM 3 - HEAD FRAME

N.T.S.
RUSKIN #70-022497-00B
MATERIAL: 6063-T6 ALUM.



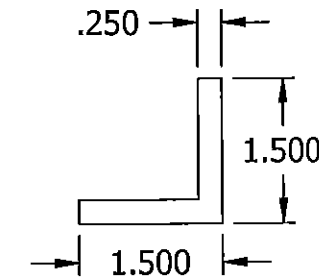
ITEM 4 - BLADE BRACE

N.T.S.
RUSKIN #70-022741-00B
MATERIAL: 6063-T6 ALUM.



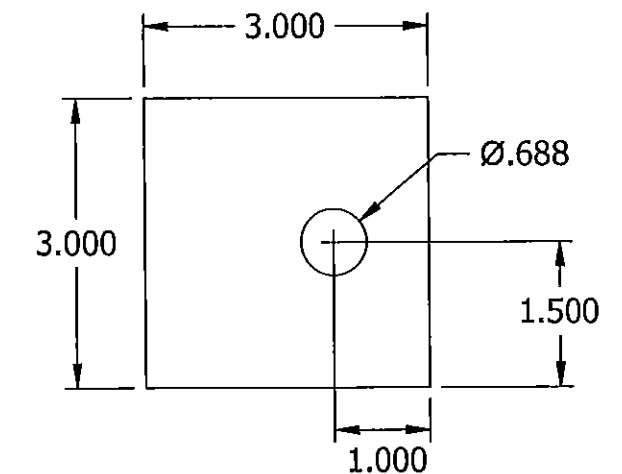
ITEM 5 - BLADE

N.T.S.
RUSKIN #70-022496-00B
MATERIAL: 6063-T6 ALUM.



ITEM 6 - CLIP ANGLE

N.T.S.
RUSKIN #70-021175-00B
MATERIAL: 6063-T6 ALUM.



ITEM 7 - ATTACHMENT PLATE

N.T.S.
MATERIAL: 1/4" THK. A36 STEEL

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

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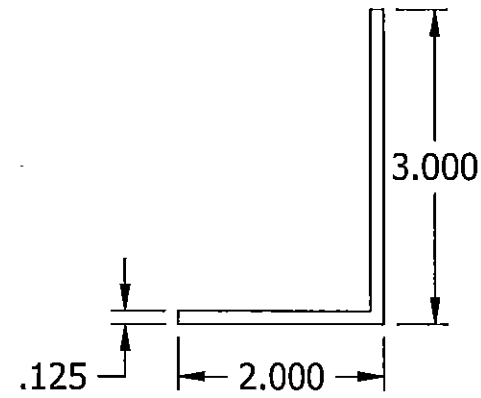
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0212-04
Expiration Date 02/23/2021
By *[Signature]*
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010
2 PLACE .XX +.020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE UNLESS OTHERWISE
SPECIFIED

DWN. BY: DRP	CHK. BY: DJR	APPVD. BY: DJR	APPVD. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

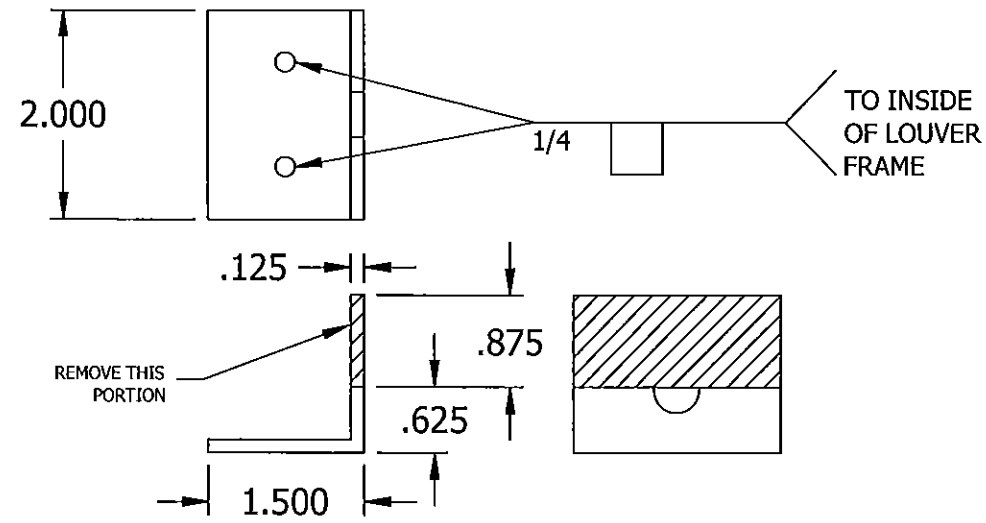
SHEET 18 OF 21

<div>B</div>	REVISED ENGINEER OF RECORD, ANNOTATIONS & ITEM 4	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APP'V'D. BY:	APP'V'D. BY:	DATE
<div>RELIABLE</div> <div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER PARTS DETAILS		DWG. NO. 60-022270-00B				



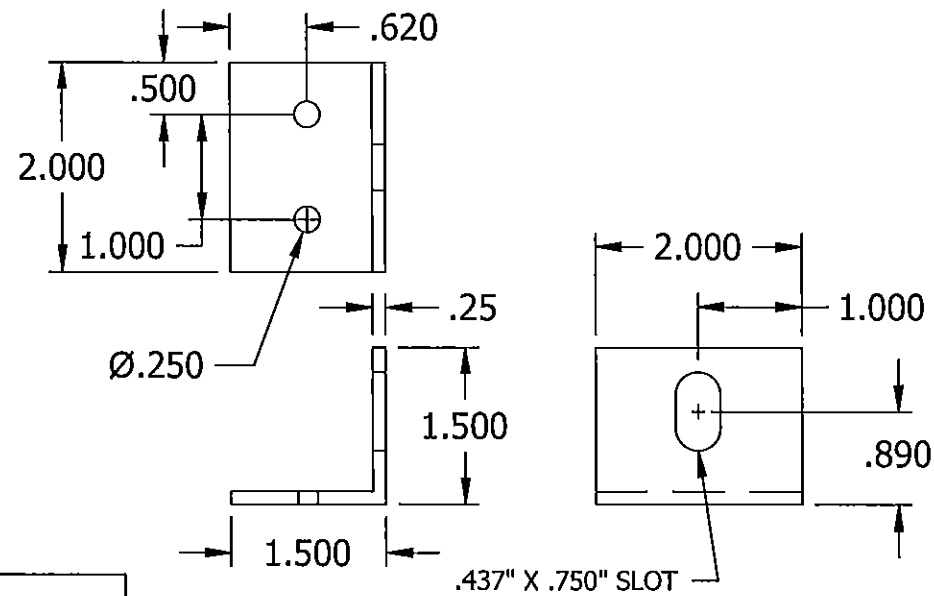
ITEM 8 - SUPPORT ANGLE

N.T.S.
MATERIAL: 6063-T6 ALUM.



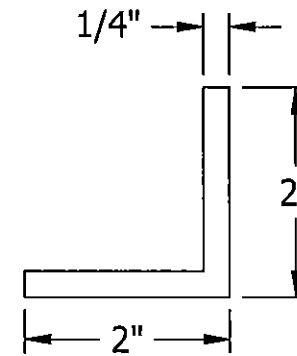
ITEM 9 - MODIFIED CLIP ANGLE

N.T.S.
MATERIAL: 5005-H34 ALUM.



ITEM 11 - CLIP ANGLE

N.T.S.
RUSKIN #85-021637-00B
MATERIAL: 6063-T6 ALUM.



ITEM 12 - ANGLE

N.T.S.
RUSKIN #85-021662-00B
MATERIAL: 6063-T6 ALUM.

ITEM 10 - ATTACHMENT ANGLE - REMOVED

N.T.S.
MATERIAL: 3003-H14 ALUM.

(B)

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By [Signature]
Miami Trade Product Control

TOLERANCES:
DECIMAL DIMENSIONS:
3 PLACE XXX + .010
2 PLACE XX + .020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE W/CO-007 & 008
UNLESS SPECIFIED OTHERWISE

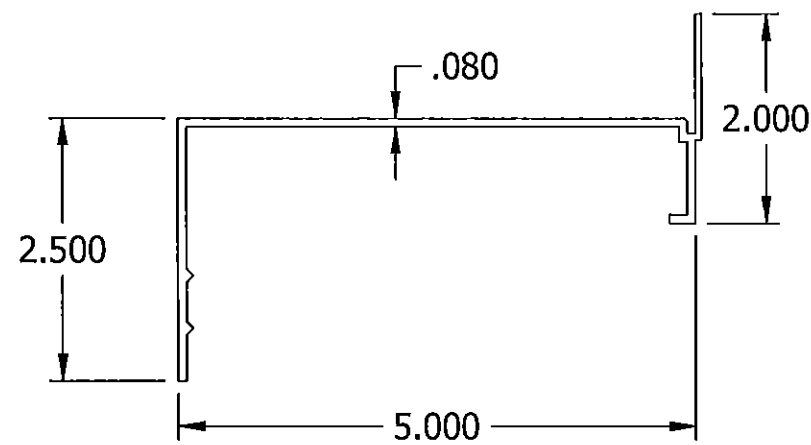
DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 19 OF 21

(B)	REVISED ENGINEER OF RECORD & ANNOTATIONS	RSM	RKP	CGW		1/25/16
	CHANGE LETTER	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
REVISION DESCRIPTION		PLOT SCALE		ECN: _____		
TITLE		DWG. NO.				
5DDWRDC LOUVER PARTS DETAILS		60-022270-00B				

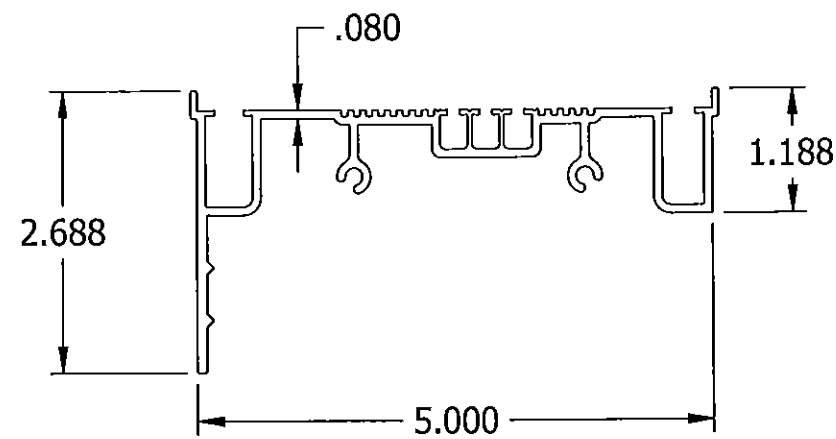
RELIABLE

1300 Enterprise Road
Geneva, Alabama 36340
PHONE (334) 684-3621
FAX (334) 684-2832



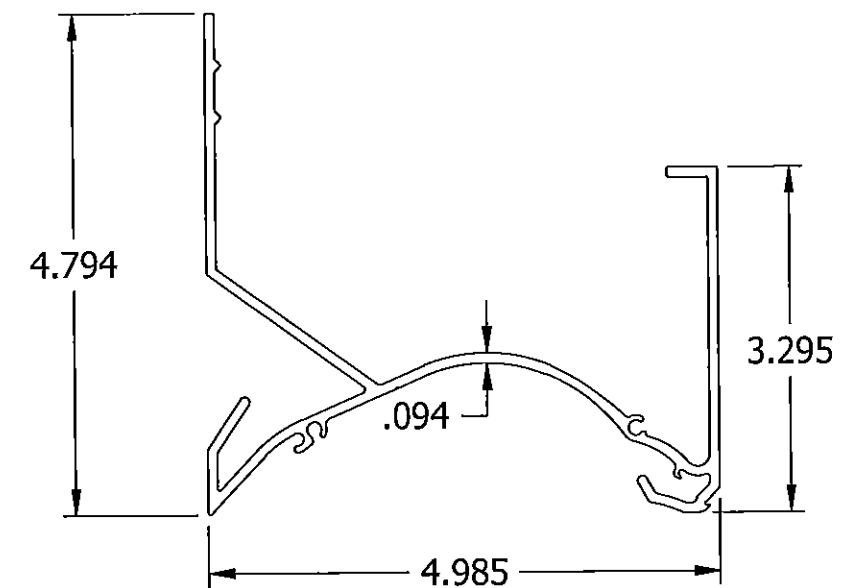
ITEM 13 - SILL FLANGE FRAME

N.T.S.
RUSKIN #70-020969-00B
MATERIAL: 6063-T6 ALUM.



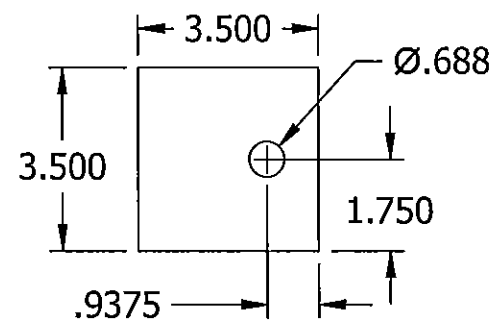
ITEM 14 - JAMB FLANGE FRAME

N.T.S.
RUSKIN #70-022509-00B
MATERIAL: 6063-T6 ALUM.



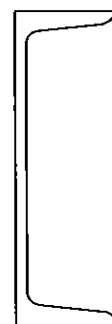
ITEM 15 - HEAD FLANGE FRAME

N.T.S.
RUSKIN #70-022499-00B
MATERIAL: 6063-T6 ALUM.



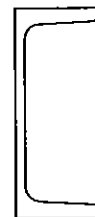
ITEM 16 - ATTACHMENT PLATE

N.T.S.
MATERIAL: 1/4" THK. A36 STEEL



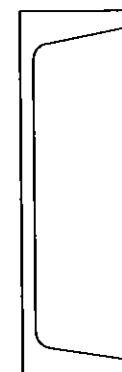
ITEM 17 - C6x8.2

N.T.S.
HDG A36 STL.



ITEM 18 - C5x6.7

N.T.S.
HDG A36 STL.



ITEM 19 - C7x9.8

N.T.S.
HDG A36 STL.



ITEM 20 - C4x5.4

N.T.S.
HDG A36 STL.



ITEM 21 - C3x4.1

N.T.S.
HDG A36 STL.

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
REGISTRATION NUMBER
FL# 67221

ENGINEER OF RECORD SEAL

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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No **16-0217-pg**
Expiration Date **02/23/2021**
By **[Signature]**
Miami Tyde Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE XXX +.010
2 PLACE XX +.020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE MQ-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 20 OF 21

<div>B</div>	REVISED ENGINEER OF RECORD, ANNOTATIONS AND ITEMS 14 & 15	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div><div>RELIABLE</div><div>1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832</div></div>		PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER PARTS DETAILS		DWG. NO. 60-022270-00B				

ⓑ ASSEMBLY "B" & "C" SUPPORT TABLE					
MULLION HEIGHT	MULLION SUPPORT	MULLION TO WOOD ATTACHMENT	MULLION TO STEEL ATTACHMENT	MULLION TO CONCRETE ATTACHMENT	MULLION TO CMU ATTACHMENT
FROM 133" TO 144"	(2) C6x8.2	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 116" TO 133"	(2) C5x6.7	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 103" TO 116"	(2) C4x5.4	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 12" TO 103"	(2) C3x4.1	DETAIL 4, 12	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C

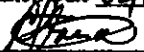
ⓑ ASSEMBLY "D" SUPPORT TABLE					
JAMB/MULLION HEIGHT	JAMB/MULLION SUPPORT	JAMB/MULLION TO WOOD ATTACHMENT	JAMB/MULLION TO STEEL ATTACHMENT	JAMB/MULLION TO CONCRETE ATTACHMENT	JAMB/MULLION TO CMU ATTACHMENT
FROM 140" TO 144"	(2) C7x9.8	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 123" TO 140"	(2) C6x8.2	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 108" TO 123"	(2) C5x6.7	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 95" TO 108"	(2) C4x5.4	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C
FROM 12" TO 95"	(2) C3x4.1	DETAIL 4, 12, 13	DETAIL 4A, 12A	DETAIL 4A, 12B	DETAIL 4A, 12C

ⓑ

ENGINEER OF RECORD
CHELSEA G. WELCH
ENGINEERING DISCIPLINE
CIVIL/STRUCTURAL
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ENGINEER OF RECORD SEAL


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Building Code
Acceptance No 16-0217-04
Expiration Date 02/23/2021
By 
Miami Trade Product Control

TOLERANCES
DECIMAL DIMENSIONS:
3 PLACE .XXX +.010
2 PLACE .XX +.020
FRACTION DIMENSIONS: + 1/16
ANGLE DIMENSIONS: + 2°
USE MTC-007 & 008
UNLESS SPECIFIED OTHERWISE

DWN. BY: DRP	CHK. BY: DJR	APPV'D. BY: DJR	APPV'D. BY:
DATE: 5/16/12	DATE: 8/2/12	DATE: 8/2/12	DATE:

SHEET 21 OF 21

ⓑ	REVISED ENGINEER OF RECORD & SUPPORT TABLES	RSM	RKP	CGW		1/25/16
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
	 1300 Enterprise Road Geneva, Alabama 36340 PHONE (334) 684-3621 FAX (334) 684-2832	PLOT SCALE B		ECN: _____		
TITLE 5DDWRDC LOUVER ASSEMBLY "B", "C" & "D" SUPPORT TABLES		DWG. NO. 60-022270-00B				